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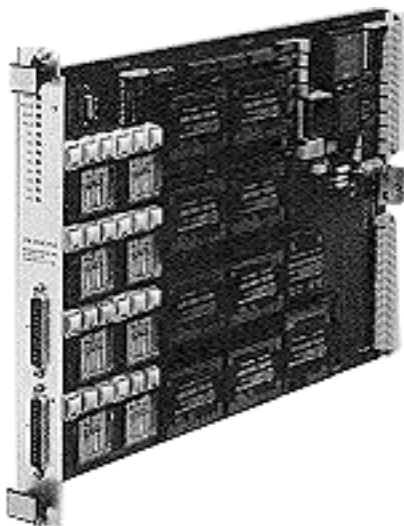
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## **D5410C-47**

### **Eight Synchro/Resolver to Digital Channels**



- **14 or 16 bit Resolution**
- **Accuracy to 3 arc minutes**
- **High Speed Data Transfer**
- **1000 readings/second/channel**
- **Trigger: Internal or External**
- **Transformer Isolation**
- **Self-Test**
- **Message Based**
- **No adjustment or trimming required**

#### **GENERAL**

The Model D5410C-47 incorporates eight separate transformer isolated Synchro/Resolver Measurement channels with wrap-around self-test within a VXI compatible size "C" IAC per IEEE-STD-1014.

Each converter can be separately specified as to either synchro or resolver format, input voltage, phase shift, reference voltage and frequency. Programmable synchro or resolver inputs can be specified.

This module is ideal for those applications that require many readings/second. Each channel can be read as often as 1000 times per second or the card can be configured to simultaneously sample and latch all activated channels via the front panel trigger or via the trigger bus with data from all activated channels available with a single data request. In addition, our high-speed VXIbus data rate of 500 Kbytes/sec. frees the bus for other functions.

**Confidence Test:** A CNF command will cause relays to disconnect the S/D inputs from the outside world and to connect them across the internal D/S. The microprocessor will then activate the internal reference supply and program a series of simulator angles that will be verified by the S/D. This test will be completed within 1 minute and will provide 95% fault detection to the module level.

**Self-Test:** This test is initiated via the IST command and is otherwise identical to the Confidence Test.

## SPECIFICATIONS

**Number of Channels:** Up to Eight  
**Resolution:** See part number designation  
**Accuracy:** See part number designation  
**Input Voltage:** See part number designation Transformer isolated  
**Input Impedance:** See part number designation  
**Tracking Rate:** See part number designation  
**Reference Voltage:** See part number designation Transformer isolated  
**Reference Frequency:** See part number designation  
**Reference Current:** 7.0 mA max total  
**Data Acquisition Modes:**

*Immediate:* Data is retrieved from a selected channel using INX and FTCH commands.

*Scan:* Data from all active channels will be sequentially dumped into FIFO. This data buffer can hold 1024 readings (128 per channel with 8 channels active). Data is retrieved by FTCH DATA command.

**Trigger:** Data from all active channels will be latched by either an external (front panel) trigger, or via the trigger bus and dumped into FIFO.

**Trigger Capability:** TTLTRG0 to TTLTRG. External trigger in accordance with RS-485. Internal trigger can be set to a repetitive rate of 1-1000 samples/second with 50 $\mu$ s resolution.

**Acquisition rate:** Up to 1000 readings/sec/channel

**Conversion Rate:** 5 ms per basic string message

**VXIbus Data Rate:** 500 kbyte/sec.

**Data Buffer Size:** 1024 readings (128 per channel with 8 channels active)

**Interface:** VXIbus Native (MATE/CIIL) Meets IEEE-488.2

**Temperature, operating:** -10°C to +65°C

**Temperature, storage:** -40°C to +85°C

**Relative humidity:** to 90% RH

**Shock:** Designed to meet 15G, 11 ms

**Vibration:** Designed to meet MIL-T-28800C for class V equipment.

**Altitude, operating:** 10,000 feet

**Altitude, non operating:** 40,000 feet

**Power Requirements:**

+12 Vdc at 800 mA

-12 Vdc at 400 mA

+5 Vdc at 1 A

**Size:** VXIbus C-size standard, single slot

**Weight:** 4.0 lbs

**Calibration intervals:** 1 year

**Acoustic noise:** None

**Max. corrective time:** 0.5 hours. No preventive maintenance is required.

**Connectors:** All connections are via front panel "D" connectors. Mating connectors not supplied.

**Cooling:** External air flow is not required

**PART NUMBER DESIGNATION**

PART NUMBER	NO. OF INPUTS	INPUT FORMAT	RESOLUTION	ACCURACY	INPUT (VL-L)	INPUT Z (Ohms)	REF (Vrms)	FREQ (Hz)	TRACKING RATE (rps)
D5410C-47-1	6	Synchro	16 bit	.067°	11.8	40 k	26	400	16
D5410C-47-5	8	Syn/Res	16 bit	.067°	11.8/11.8	40 k	26	400	16
D5410C-47-10	8	Resolver	16 bit	.067°	11.8	40 k	26	400	16
D5410C-47-13	4	Syn/Res	14 bit	.1°	90/90	100 k	115	400	25
	4	Syn/Res	14 bit	.1°	11.8/11.8	40 k	26	400	25
D5410C-47-14	4	Synchro	14 bit	.1°	11.8	40 k	26	400	25

NOTE: Syn/Res indicates that input format is programmable.  
 Other input voltages as low as 2.0 V<sub>L-L</sub> and frequencies up to 10 kHz can be supplied. Contact the factory.